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PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/720,646	1	1/24/2003	Heini Zollinger	0115-032131	4696
28289	7590	02/17/2006		EXAM	INER
THE WEBI		•		PARKER, FREI	DERICK JOHN
700 KOPPERS BUILDING 436 SEVENTH AVENUE				ART UNIT	PAPER NUMBER
PITTSBURG	SH, PA 1	5219		1762	

DATE MAILED: 02/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/720,646	ZOLLINGER, HEINI	
Office Action Summary	Examiner	Art Unit	
	Frederick J. Parker	1762	
The MAILING DATE of this communication	appears on the cover sheet wi	th the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a r n. eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on (06 January 2006.		
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.		
3) Since this application is in condition for all	owance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>11-16,21 and 22</u> is/are pending ir	n the application.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>11-16,21 and 22</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exar	miner.		
10) The drawing(s) filed on is/are: a)		by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	prrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docum	nents have been received.		
2. Certified copies of the priority docum	nents have been received in A	pplication No	
3. Copies of the certified copies of the	priority documents have been	received in this National Stage	
application from the International Bu			
* See the attached detailed Office action for a	list of the certified copies not	received.	
	•		
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
2)	′	s)/Mail Date nformal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:		

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/6/06 has been entered.

2. The rejections of the previous Office Action are withdrawn, as they were overcome by Applicant's amendments. An update search discovered new relevant prior art, which is applied as the rejections below.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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5. Claims 11,13-16,22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen et al US 3801421 in view of Burley et al US 6021646.

Allen et al teaches a porous or permeable granular composite covering (which may be continuous and jointless, e.g. football field, col. 7, 48-51) forming a surfacing, comprising a particulate rubber (e.g. SBR) bonded with a polymeric resin binder (col. 4, 37-62). The surfacing is formed with void space to permit drainage of rainwater due to the permeable nature of the composite (col. 6, 3-7), which prevents pressure build-up/delamination, and provides a cushionlike feel to the composite. The porous/permeable composite as described permits downward flow of water from the top surface due to gravity. The rubber particle- resin binder mixture may be continuously applied onto a surface followed by toweling/ tamping (which are compaction/ smoothing steps), or other shaping prior to curing (col. 6, 28-33 and col. 9, 1-6). Heated screed and rollers of claims 14-15 for compacting and texturizing are not explicitly cited. However, it is the Examiner's position that since Allen teaches toweling/tamping steps, it would have been obvious to use other and known, functionally equivalent means such as a heated screed to provide an equivalent outcome in the process of Allen et al, absent a clear and convincing showing to the contrary. Applying depressions using an uneven pressure embossing step is not cited.

Burley teaches making flooring systems for sports facilities, and includes teaching that top surfaces may be provided with a textured finish using a heated roller or texture wheel embossing means, without limitation on the regularity of textures formed. The texturizing is stated to enhance traction of persons walking or running on the surfaces.

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The references deal with the same subject matter: forming surfaces for sporting or related use with stated improvements as motivation to make the modifications. Since Allen suggests shaping the composite layer before curing, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of Allen by incorporating shaping by mechanically texturizing the resultant surface as taught by Burley et al to provide the recognized improvement of enhanced grip/ traction of persons walking or running on the surfaces.

6. Claims 12,21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen et al US 3801421 in view of Burley et al US 6021646 and further in view of Bull US 4897302.

Allen and Burley are cited for the same reasons previously discussed, which are incorporated herein. Specific particle size ranges of the claims are not cited.

Allen et al teaches on col. 5, 4-7 that particles are "typically" between ¼-1/2" (about 6.4-12.5 mm) screen openings and retained on #30-40 screens (about 0.425-0.6 mm) and further Ex. 3 teaches particles less than 4.7 mm, which are slightly different from the claims. However, Bull teaches on col. 2, 5-25 the making of a similar porous structure made of a mixture of liquid (polyurethane) polymer binder and rubber particles (0.5-5 mm), the structure containing porous interstices to provide resiliency, and the advantage of improved grip on athletic surfaces. Thus Bull also teaches effective particle size ranges of rubber particles mixed with a polymer binder which provides effective porous surfacing composites. The particle sizes of Bull over lap those of Applicants' claims. The subject matter as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made if the overlapping portion of the particle sizes disclosed by the reference were selected because overlapping ranges have been held to be a

prima facie case of obviousness, see In re Wortheim 191 USPQ 90. It is also noted Bull's upper particle size ranges overlap those of Allen et al which are also presented as effective to form void space to permit water drainage.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to carry out the process of Allen in view of Burley by incorporating the guidance on particle size of the rubber particles presented by Bull to provide rubber particle-polymer composites having porosity/ void space which permits drainage of water.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick J. Parker whose telephone number is 571/272-1426. The examiner can normally be reached on Mon-Thur. 6:15am -3:45pm, and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571/272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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